

524,300

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/015070 A2

- (51) International Patent Classification⁷: C12N
- (21) International Application Number: PCT/US2003/024548
- (22) International Filing Date: 6 August 2003 (06.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/402,521 8 August 2002 (08.08.2002) US
- (71) Applicants (*for all designated States except US*): BAYLOR COLLEGE OF MEDICINE [US/US]; One Baylor Plaza, Houston, TX 77030 (US). OPEXA PHARMACEUTICALS INC. [US/US]; 835 Green Parkway, Suite 150, Houston, TX 77067 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): ZHANG, Jingwu, Z. [US/US]; 2219 Parkview Lane, Missouri City, TX 77459 (US).
- (74) Agents: CLOUGH, David, W. et al.; Katten Muchin Zavis Rosenman, 525 W. Monroe Street, Suite 1600, Chicago, IL 60661-3693 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ISOLATION AND IDENTIFICATION OF T CELLS

(57) Abstract: The present invention relates to improved autologous T cell vaccines and improved methods for their production. The invention is also directed to methods for treating autoimmune diseases such as multiple sclerosis or rheumatoid arthritis using autologous T cell vaccines. The invention is further directed to the diagnosis of T cell associated diseases.

WO 2004/015070 A2